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Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: SABIHA QAZI Examiner #: 74141 Date: 5/8/06

Art Unit: 1616 Phone Number: 2-0622 Serial Number: 10/816,641

Location (Bldg/Room#): 4A45 (Mailbox #): 4C76 Results Format Preferred (circle): PAPER DISK

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MG

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: 6-Alkyl or Alkenyl-4-Aminopicolinates + their use as Herbicides

Inventors (please provide full names): BALKO et al

Earliest Priority Date: 4/2/2003

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

For Sequence Searches Only *Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Please search for picolates of formula I in cl 1.

X = H or Halogen (for broad search)

Cl = may be search for any halogen for broad search

Thank you

****

STAFF USE ONLY	Type of Search	Vendors and cost where applicable
Searcher:	___ NA Sequence (#)	___ STN ___ Dialog
Searcher Phone #:	___ AA Sequence (#)	___ Questel/Orbit ___ Lexis/Nexis
Searcher Location:	___ Structure (#)	___ Westlaw ___ WWW/Internet
Date Searcher Picked Up:	___ Bibliographic	___ In-house sequence systems
Date Completed:	___ Litigation	___ Commercial ___ Oligomer ___ Score/Length ___ Interference ___ SPDI ___ Encode/Transl ___ Other (specify)
Searcher Prep & Review Time:	___ Fulltext	
Online Time:	___ Other	

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L3          18 SEA SSS FUL L1
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     FILE 'BEILSTEIN' ENTERED AT 11:22:23 ON 09 MAY 2006
L5           0 SEA SSS FUL L1

     FILE 'MARPAT' ENTERED AT 11:22:34 ON 09 MAY 2006
L6          14 SEA SSS SAM L1

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FILE 'HCAPLUS' ENTERED AT 11:23:22 ON 09 MAY 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 9 May 2006  VOL 144 ISS 20
FILE LAST UPDATED: 8 May 2006  (20060508/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

 This file contains CAS Registry Numbers for easy and accurate
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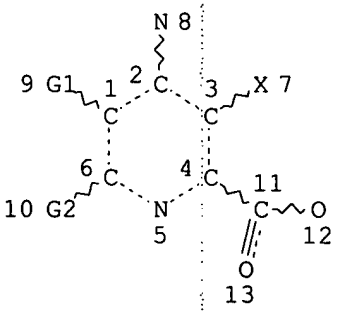

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VAR G2=14/15/18
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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  20

STEREO ATTRIBUTES: NONE
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L4            3 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L3


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L4   ANSWER 1 OF 3  HCAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2004:825101  HCAPLUS
DOCUMENT NUMBER:          141:308993
TITLE:                    6-Alkyl or alkenyl-4-aminopicolinates and their use as
                          herbicides
INVENTOR(S):              Balko, Terry William; Buysse, Ann Marie; Fields,
                          Stephen Craig; Irvine, Nicholas Martin; Lo, William
                          Chi-Leung; Lowe, Christian Thomas; Richburg, John
                          Sanders; Schmitzer, Paul Richard
PATENT ASSIGNEE(S):       USA
SOURCE:                   U.S. Pat. Appl. Publ., 12 pp.
                          CODEN: USXXCO
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.          DATE
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     US 2004198608         A1    20041007    US 2004-816611           20040402
     AU 2004228666         A1    20041021    AU 2004-228666           20040402
     CA 2517486            AA    20041021    CA 2004-2517486          20040402
     WO 2004089906         A2    20041021    WO 2004-US10358          20040402
     WO 2004089906         A3    20041202
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     CN 1764646            A     20060426    CN 2004-80007800         20040402
     NO 2005004378         A     20051018    NO 2005-4378             20050921
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WO 2004-US10358 A 20040402

OTHER SOURCE(S): MARPAT 141:308993

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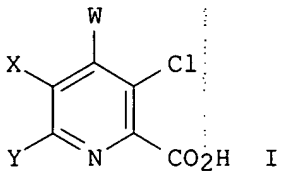

I

AB 4-Aminopicolinates with alkyl or alkenyl substituents in the 6-position (I, wherein X = H, F; Y = C1-4 alkyl, C1-4-alkoxy- or thioalkoxy-substituted alkyl, or C2-3 alkenyl; and W represents NO2, N3, NR1R2, etc.; R1 and R2 independently = H, C1-6 alkyl, etc.) and their amine and acid derivs. are potent herbicides demonstrating a broad spectrum of weed control. Thus, Me 4-amino-3-chloro-6-ethylpyridine-2-carboxylate (II) at 250 ppm controlled cocklebur (Xanthium strumarium), lamb's-quarters (Chenopodium album), and pigweed (Amaranthus retroflexus) by 95, 100, and 98%, resp. (postemergent control), with no injury to corn (Zea mays). Preemergent control of lamb's-quarters by II at 280 ppm was 98%.

IT **767334-31-6 767334-32-7 767334-33-8**
767334-34-9 767334-35-0 767334-36-1
767334-37-2 767334-38-3 767334-39-4
767334-40-7 767334-41-8 767334-42-9
767334-43-0 767334-44-1 767334-45-2
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(as herbicide with broad spectrum of weed control)

RN 767334-31-6 HCAPLUS

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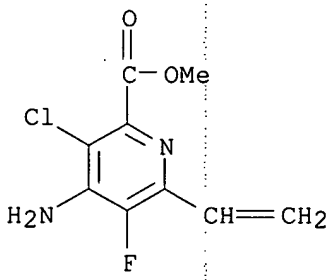

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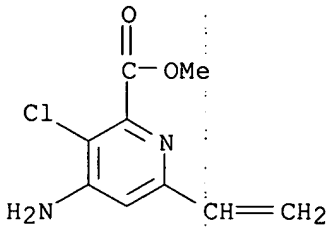

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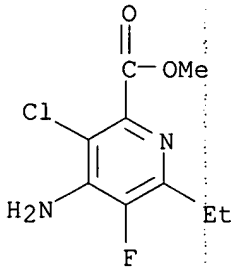

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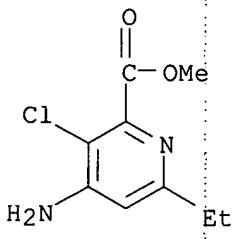

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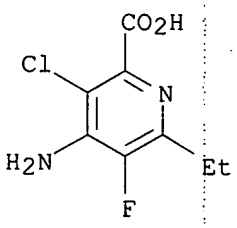

RN 767334-36-1 HCAPLUS
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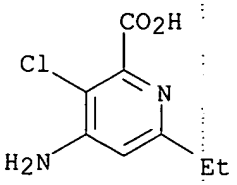
NAME)



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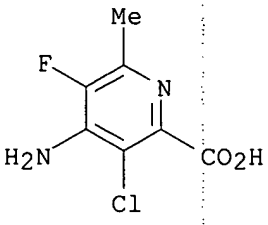

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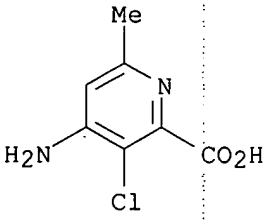

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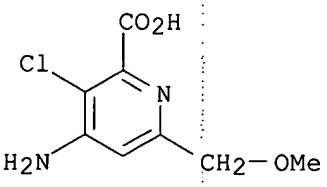

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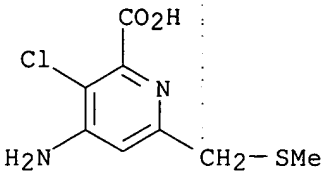

RN 767334-41-8 HCAPLUS
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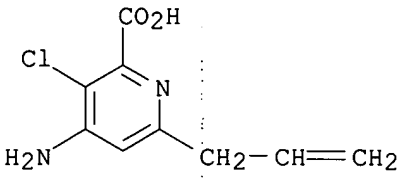

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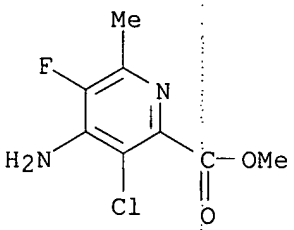

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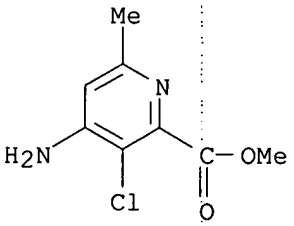

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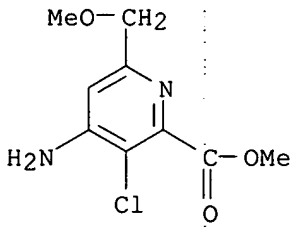

RN 767334-45-2 HCAPLUS
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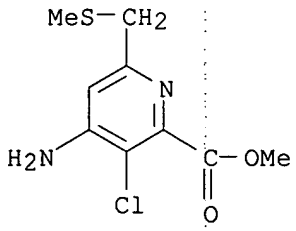

L4 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:117817 HCAPLUS
DOCUMENT NUMBER: 138:153444
TITLE: Preparation of 6-aryl-4-aminopicolinic acids as herbicides with excellent crop selectivity
INVENTOR(S): Balko, Terry William; Buysse, Ann Marie; Epp, Jeffrey Brian; Fields, Stephen Craig; Lowe, Christian Thomas; Keese, Renee Joan; Richburg, John Sanders, III; Ruiz, James Melvin; Weimer, Monte Ray; Green, Renard Antonio; Gast, Roger Eugene; Bryan, Kristy; Irvine, Nicholas Martin; Lo, William Chi-Leung; Brewster, William Kirkland; Webster, Jeffrey Dale
PATENT ASSIGNEE(S): Dow AgroSciences, LLC, USA
SOURCE: PCT Int. Appl., 84 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003011853	A1	20030213	WO 2002-US24120	20020730
WO 2003011853	C1	20040715		

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CA 2453623	AA	20030213	CA 2002-2453623	20020730
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US 6784137	B2	20040831		
EP 1414814	A1	20040506	EP 2002-756794	20020730
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BR 2002011532	A	20040914	BR 2002-11532	20020730
CN 1551876	A	20041201	CN 2002-814816	20020730
JP 2005505523	T2	20050224	JP 2003-517045	20020730
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OTHER SOURCE(S): MARPAT 138:153444

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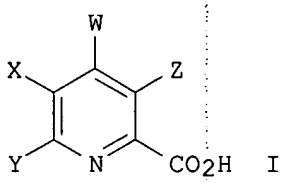


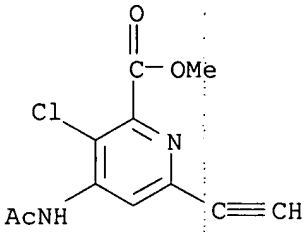
I

AB 6-Aryl-4-aminopicolinic acids (shown as I; variables defined below; e.g. 4-amino-3-chloro-6-(4-methylphenyl)pyridine-2-carboxylic acid) and agriculturally acceptable derivs. of the carboxylic acid group are potent herbicides demonstrating a broad spectrum of weed control. Twelve herbicidal compns. are tabulated. Although the methods of preparation are not claimed, 47 example prepns. are included and >200 specific I are mentioned along with phys. and/or herbicidal properties. Post-emergent herbicidal activities are included for some I against cocklebur (Xanthium strumarium), lambsquarter (Chenopodium album), barnyard grass (Echinochloa crus-galli) and yellow nutsedge (Cyperus esculentus); selectivity to wheat and corn is also shown. Pre-emergent herbicidal activities are included for some I against lambsquarter (Chenopodium album), pigweed (redroot) (Amaranthus retroflexus), crabgrass (large) (Digitaria sanguinalis), and giant foxtail (Setaria faberii). For I: X = H, halogen, C1-C6 alkyl, C1-C6 alkoxy, C1-C6 alkylthio, aryloxy, nitro, C1-C6 haloalkyl, C1-C6 haloalkoxy, thiocyanate, or cyano; Y = aryl, Ph, indanyl or naphthyl or heteroaryl (5- or 6-membered heteroarom. rings containing ≥1 heteroatoms which may be fused to other aromatic systems; aryl or heteroaryl group being unsubstituted or substituted with ≥1 substituents = halogen, hydroxy, nitro, cyano, aryloxy, formyl, C1-C6 alkyl, C2-C6 alkenyl, C2-C6 alkynyl, C1-C6 alkoxy, halogenated C1-C6 alkyl, halogenated C1-C6 alkoxy, C1-C6 acyl, C1-C6 alkylthio, C1-C6 alkylsulfinyl, C1-C6 alkylsulfonyl, aryl, C1-C6 OC(O)alkyl, C1-C6 NHC(O)alkyl, C(O)OH, C1-C6 C(O)Oalkyl, C(O)NH2, C1-C6 C(O)NHalkyl, C1-C6 C(O)N(alkyl)2, -OCH2CH2-, -OCH2CH2CH2-, -OCH2O- or -OCH2CH2O-). Z = halogen, C1-C6 alkyl, C1-C6 alkoxy, C1-C6 alkylthio, aryloxy, nitro, C1-C6 haloalkyl, C1-C6 haloalkoxy, thiocyanate, or cyano; and W = -NO2, -N3, -NR1R2, -N:CR3R4 or -NHN:CR3R4 (R1 and R2 = H, C1-C6 alkyl, C3-C6 alkenyl, C3-C6 alkynyl, aryl, heteroaryl, hydroxy, C1-C6 alkoxy, amino, C1-C6 acyl, C1-C6 carboalkoxy, C1-C6 alkylcarbamyl, C1-C6 alkylsulfonyl, C1-C6 trialkylsilyl or C1-C6 dialkyl phosphonyl or R1 and R2 taken together with N = 5- or 6-membered (un)saturated ring which may contain addnl. O, S or N heteroatoms; and R3 and R4 = H, C1-C6 alkyl, C3-C6 alkenyl, C3-C6 alkynyl, aryl or

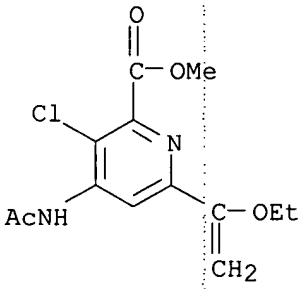
heteroaryl or R3 and R4 taken together with :C = a 5- or 6-membered saturated ring).

IT **496851-31-1P**, Methyl 4-acetamido-6-ethynyl-3-chloropyridine-2-carboxylate **496852-79-0P**, Methyl 4-acetamido-3-chloro-6-(1-ethoxyvinyl)pyridine-2-carboxylate
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 6-aryl-4-aminopicolinic acids as herbicides with excellent crop selectivity)

RN 496851-31-1 HCAPLUS
CN 2-Pyridinecarboxylic acid, 4-(acetylamino)-3-chloro-6-ethynyl-, methyl ester (9CI) (CA INDEX NAME)



RN 496852-79-0 HCAPLUS
CN 2-Pyridinecarboxylic acid, 4-(acetylamino)-3-chloro-6-(1-ethoxyethenyl)-, methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

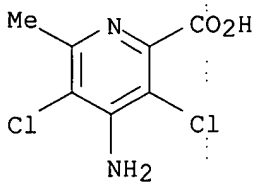
L4 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1974:56246 HCAPLUS
DOCUMENT NUMBER: 80:56246
TITLE: Poultry manure phytotoxicity
AUTHOR(S): Minchinton, I. R.; Jones, D. L.; Sang, J. P. L.
CORPORATE SOURCE: Div. Agric. Chem., Melbourne, Australia
SOURCE: Journal of the Science of Food and Agriculture (1973), 24(11), 1437-48
CODEN: JSFAAE; ISSN: 0022-5142
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Phytotoxicity of poultry deep litter manure was due to 4-amino-3,5-dichloro-6-methylpicolinic acid (I) [**50978-41-1**]. I is probably a metabolite of 4-amino-3,5-dichloro-2,6-lutidine (II) [50978-40-0], an impurity in the clopidol [2971-90-6] used in feeds to

control coccidiosis.

IT **50978-41-1**
RL: BIOL (Biological study)
(of poultry manure, phytotoxicity in relation to)

RN 50978-41-1 HCAPLUS

CN 2-Pyridinecarboxylic acid, 4-amino-3,5-dichloro-6-methyl- (9CI) (CA INDEX NAME)



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=> fil marpat
FILE 'MARPAT' ENTERED AT 11:47:52 ON 09 MAY 2006
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FILE CONTENT: 1961-PRESENT VOL 144 ISS 19 (20060505/ED)

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MOST RECENT CITATIONS FOR PATENTS FROM MAJOR ISSUING AGENCIES
(COVERAGE TO THESE DATES IS NOT COMPLETE):

US   2006062725 23 MAR 2006
DE 102004042453 02 MAR 2006
EP      1630163 01 MAR 2006
JP   2006054951 23 FEB 2006
WO   2006034632 06 APR 2006
GB      2416167 18 JAN 2006
FR      2875804 31 MAR 2006
RU      2270725 27 FEB 2006
CA      2477020 09 FEB 2006

Expanded G-group definition display now available.

New CAS Information Use Policies, enter HELP USAGETERMS for details.


=> d que l17
L8              STR
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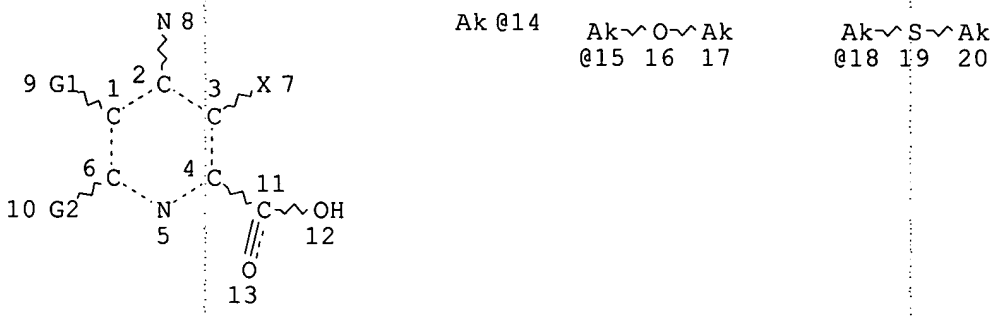


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VAR G2=14/15/18
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CONNECT IS E1  RC AT  14
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  20

STEREO ATTRIBUTES: NONE
L10         184 SEA FILE=MARPAT SSS FUL L8
L11         184 SEA FILE=MARPAT ABB=ON  PLU=ON  L10/COM
L15             STR
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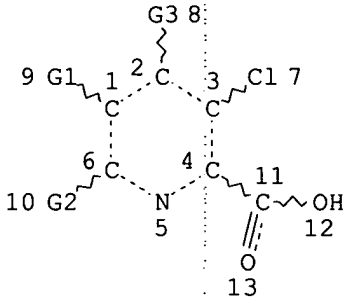

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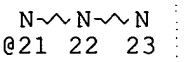

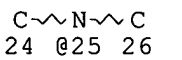

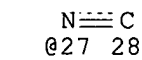

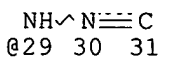

VAR G1=H/F
VAR G2=14/15/18
VAR G3=21/NO2/NH2/25/27/29
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CONNECT IS E2 RC AT 15
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CONNECT IS E1 RC AT 20
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS X4 C AT 14
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GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 31

STEREO ATTRIBUTES: NONE
L17 99 SEA FILE=MARPAT SUB=L11 SSS FUL L15

=> d l17 ibib abs qhit 79-99

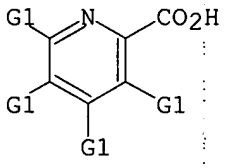
L17 ANSWER 79 OF 99 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 123:183202 MARPAT
TITLE: Photographic bleaching composition
AUTHOR(S): Anon.
CORPORATE SOURCE: UK
SOURCE: Research Disclosure (1995), 371, 163-75 (No. 37141)
CODEN: RSDSBB; ISSN: 0374-4353
DOCUMENT TYPE: Journal; Patent
LANGUAGE: English
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RD 371041		19950310		
PRIORITY APPLN. INFO.:			RD 1995-371041	19950310

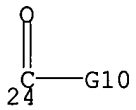
Paul Schulwitz 05/09/2006

AB A photog. bleaching composition providing strong and rapid bleaching comprises ≥1 ternary complex formed from an iron salt, a polycarboxylate or aminocarboxylate ligand, and a carboxylate ligand containing an aromatic nitrogen heterocycle with the mol ratio of the polycarboxylate or aminocarboxylate ligand to iron being ≥1:1 and that of the carboxylate ligand to iron being ≥0.6:1.

MSTR 8



G1 = alkyl <containing 1-5 C> (opt. substd. by 1 or more G5) / NO2 / Cl
G5 = alkyl <containing 1-5 C> / 24



Patent location: disclosure
Note: additional ring formation specified

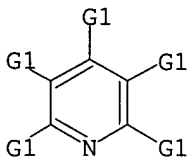
L17 ANSWER 80 OF 99 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 122:289052 MARPAT
TITLE: Method for producing polypeptide
INVENTOR(S): Nitta, Itaru; Ueda, Takuya; Watanabe, Kimitsuna
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 14 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 646648	A1	19950405	EP 1994-115590	19941004
EP 646648	B1	20020130		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 07289282	A2	19951107	JP 1994-102861	19940517
JP 3603330	B2	20041222		
JP 07291991	A2	19951107	JP 1994-102862	19940517
JP 3555170	B2	20040818		
CA 2133355	AA	19950405	CA 1994-2133355	19940930
RU 2145976	C1	20000227	RU 1994-35681	19941003
US 5643744	A	19970701	US 1994-317356	19941004
AT 212673	E	20020215	AT 1994-115590	19941004
PRIORITY APPLN. INFO.:			JP 1993-248168	19931004

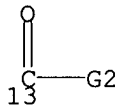
JP 1994-34834 19940304
JP 1994-34835 19940304
JP 1994-102861 19940517
JP 1994-102862 19940517

AB The present invention provides a method for producing a polypeptide, which comprises condensing precursors comprising an amino acid and an adaptor in the presence of ribosomes, rRNAs, a larger ribosomal subunit or ribosomal proteins, and an aromatic tertiary amine.

MSTR 1



G1 = Cl / NH2 (opt. substd.) / 13 / Me



G2 = OH (opt. substd.)
Patent location: claim 4

L17 ANSWER 81 OF 99 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 122:239550 MARPAT
TITLE: Preparation of fluoroalkoxy-substituted benzamides as cyclic nucleotide phosphodiesterase inhibitors.
INVENTOR(S): Amschler, Hermann; Flockerzi, Dieter; Gutterer, Beate; Hatzelmann, Armin; Schudt, Christian; Beume, Rolf; Kilian, Ulrich; Wolf, Horst P. O.
PATENT ASSIGNEE(S): Byk Gulden Lomberg Chemische Fabrik GmbH, Germany
SOURCE: PCT Int. Appl., 45 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9501338	A1	19950112	WO 1994-EP2169	19940702
W: AU, BG, BY, CA, CN, CZ, FI, HU, JP, KR, LV, NO, NZ, PL, RO, RU, SI, SK, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2165192	AA	19950112	CA 1994-2165192	19940702
CA 2165192	C	20010424		
AU 9474907	A1	19950124	AU 1994-74907	19940702
AU 687087	B2	19980219		
EP 706513	A1	19960417	EP 1994-924713	19940702
EP 706513	B1	20020515		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE

CN 1126468	A	19960710	CN 1994-192659	19940702
CN 1046939	B	19991201		
HU 73232	A2	19960729	HU 1995-3541	19940702
HU 220041	B	20011028		
JP 08512041	T2	19961217	JP 1994-503287	19940702
RU 2137754	C1	19990920	RU 1996-102569	19940702
PL 178314	B1	20000428	PL 1994-311820	19940702
CZ 290266	B6	20020612	CZ 1996-1	19940702
AT 217612	E	20020615	AT 1994-924713	19940702
PT 706513	T	20021031	PT 1994-924713	19940702
ES 2176252	T3	20021201	ES 1994-924713	19940702
SK 283263	B6	20030401	SK 1995-1617	19940702
US 5712298	A	19980127	US 1995-564322	19951219
NO 9505211	A	19951221	NO 1995-5211	19951221
NO 305598	B1	19990628		
FI 9506333	A	19951229	FI 1995-6333	19951229
FI 112864	B1	20040130		
HK 1011690	A1	20021011	HK 1998-112932	19981208
LV 13074	B	20040320	LV 2003-48	20030513
PRIORITY APPLN. INFO.:			CH 1993-1996	19930702
			WO 1994-EP2169	19940702

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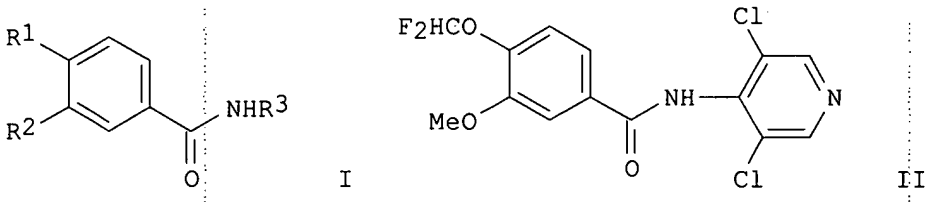
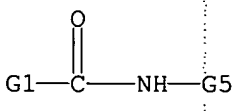


AB Title compds. [I; 1 of R1, R2 = H, alkoxy, cycloalkoxy, cycloalkylmethoxy, PhCH2O, totally or partially fluorinated alkoxy, and the other = totally or partially fluorinated alkoxy; R3 = (substituted) Ph, pyridyl], and N-oxides and salts thereof, were prepared Thus, 4-difluoromethoxy-3-methoxybenzoic acid (preparation given) was refluxed with SOCl2 in PhMe; the residue was stirred with 4-amino-3,5-dichloropyridine and NaH in THF to give 58.6% title compound (II). I inhibited PDE type IV with -log IC50 = 8.42-9.18.

MSTR 1



G5 = pyridyl (opt. substd. by (1-4) G7)
G7 = CO2H / Cl / Me
Derivative: and salts
Patent location: claim 1
Note: substitution is restricted

MSTR 3

H_2N——G5

G5 = pyridyl (opt. substd. by (1-4) G7)
G7 = CO2H / Cl / Me
Patent location: claim 21
Note: substitution is restricted

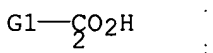
L17 ANSWER 82 OF 99 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 122:214104 MARPAT
TITLE: Preparation of 1,2-diacylated hydrazine-derivative cell adhesion inhibitors
INVENTOR(S): Brewster, Andrew George; Caulkett, Peter William Rodney; Faull, Alan Wellington; Pearce, Robert James; Shute, Richard Eden
PATENT ASSIGNEE(S): Zeneca Ltd., UK
SOURCE: Eur. Pat. Appl., 30 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 632016	A1	19950104	EP 1994-304554	19940623
EP 632016	B1	19970409		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
ZA 9404079	A	19950103	ZA 1994-4079	19940609
WO 9500472	A1	19950105	WO 1994-GB1356	19940623
W: AU, BG, BR, BY, CA, CN, CZ, FI, GE, HU, JP, KR, LV, MD, NO, NZ, PL, RO, RU, SK, UA				
AU 9472668	A1	19950117	AU 1994-72668	19940623
JP 08512024	T2	19961217	JP 1994-502583	19940623
AT 151410	E	19970415	AT 1994-304554	19940623
US 5612373	A	19970318	US 1994-266375	19940627
US 5760057	A	19980602	US 1996-767443	19961216
US 5981531	A	19991109	US 1998-86408	19980529

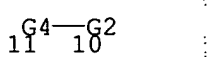
PRIORITY APPLN. INFO.: GB 1993-13285 19930628
WO 1994-GB1356 19940623
US 1994-266375 19940627
US 1996-767443 19961216

AB The title compds. R1CON(R2)N(R3)COX1QX2G [I; G = (un)substituted CO2H; Q = (un)substituted 1,4-phenylene, (un)substituted 1,4-piperidinediyl; R1 = (un)substituted Ph, (un)substituted pyridinyl, (un)substituted 4-piperidinyl, (un)substituted 1-piperazinyl; R2, R3 = C1-4 alkyl, arylalkyl; X1 = direct bond, C1-4 alkylene; X2 = X1, oxyalkylene, etc.] [e.g., 4-[3-(piperazin-1-ylcarbonyl)carbazoyl]-2-(carboxymethoxy)phenoxyacetic acid], useful as inhibitors of the binding of fibrinogen to glycoprotein IIb/IIa (no data) [e.g., blood-platelet aggregation inhibitors (no data)], are prepared and I-containing formulations presented..

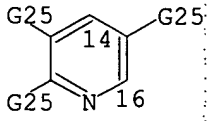
MSTR 4



G1 = 10



G2 = 16-2 14-11



G4 = NHC(NH)NH2
G25 = Cl / Me
Derivative: or reactive derivatives
Patent location: claim 8

L17 ANSWER 83 OF 99 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 122:187628 MARPAT
TITLE: Preparation of 1,5-benzodiazepine-2,4-dione derivatives as cholecystokinin A receptor agonists.
INVENTOR(S): Sugg, Elizabeth Ellen; Aquino, Christopher Joseph; Szewczyk, Jerzy Ryszard; Finch, Harry; Carr, Robin Arthur Ellis
PATENT ASSIGNEE(S): Glaxo Inc., USA
SOURCE: PCT Int. Appl., 61 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9424149	A1	19941027	WO 1994-EP1131	19940414
W: AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KG, KP, KR, KZ, LK, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
IL 109316	A1	19990312	IL 1994-109316	19940413
CA 2158973	AA	19941027	CA 1994-2158973	19940414
AU 9465676	A1	19941108	AU 1994-65676	19940414
AU 681139	B2	19970821		
ZA 9402570	A	19941111	ZA 1994-2570	19940414
ZA 9402571	A	19941111	ZA 1994-2571	19940414
EP 694039	A1	19960131	EP 1994-913580	19940414
EP 694039	B1	20010124		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CN 1120843	A	19960417	CN 1994-191773	19940414
CN 1058487	B	20001115		

JP 08508744	T2	19960917	JP 1994-522734	19940414
JP 3406317	B2	20030512		
HU 74102	A2	19961128	HU 1995-2978	19940414
RU 2135486	C1	19990827	RU 1995-117974	19940414
CZ 286695	B6	20000614	CZ 1995-2675	19940414
PL 178790	B1	20000630	PL 1994-311084	19940414
SK 281211	B6	20010118	SK 1995-1253	19940414
AT 198894	E	20010215	AT 1994-913580	19940414
ES 2154674	T3	20010416	ES 1994-913580	19940414
PT 694039	T	20010629	PT 1994-913580	19940414
TW 487703	B	20020521	TW 1994-83104772	19940526
FI 9504853	A	19951012	FI 1995-4853	19951012
NO 9504090	A	19951213	NO 1995-4090	19951013
NO 311133	B1	20011015		
US 5646140	A	19970708	US 1995-525659	19951013
HK 1003943	A1	20010622	HK 1998-103188	19980416
GR 3035641	T3	20010629	GR 2001-400488	20010327
PRIORITY APPLN. INFO.:			GB 1993-7833	19930415
			WO 1994-EP1131	19940414

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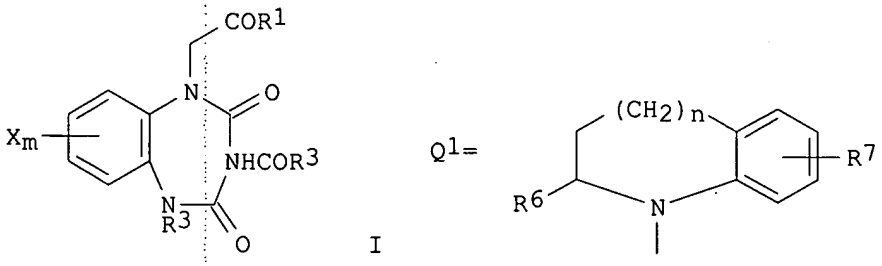
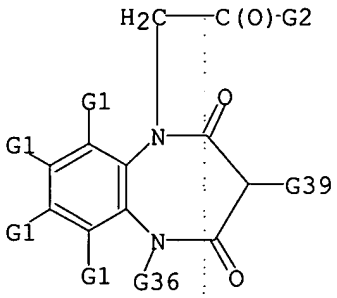


I

AB Title compds. [I; X = H, CF3, alkyl, alkylthio, alkoxy, halo; R1 = amino, Q1; R2 = (substituted) pyrrolyl, quinolinyl, benzofuryl, benzothienyl, indolyl, indolinyl, Ph, pyridyl, amino, etc.; R3 = H, alkyl, cycloalkyl, (halo)phenyl; R6 = H, Me; R7 = H, OH, F, Me2N, alkoxy, PhCH2O; m, n = 1, 2], were prepared Thus, 2-(3-amino-2,4-dioxo-5-phenyl-2,3,4,5-tetrahydrobenzo[b][1,4]diazepin-1-yl)-N-isopropyl-N-(4-methoxyphenyl)acetamide (preparation given) was stirred with indole-2-carboxylic acid, hydroxybenzotriazole, and 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride in DMF to give 1H-indole-2-carboxylic acid [1-[1-isopropyl-(4-methoxyphenyl)carbamoylmethyl]-2,4-dioxo-5-phenyl-2,3,4,5-tetrahydro-1H-benzo[b][1,4]diazepin-3-yl]amide. The latter at 30 μM in a guinea pig gall bladder assay gave 42% contraction relative to acetylcholine at 100%.

MSTR 1



G14 = 128

HN—G21
128

G21 = pyridyl (opt. substd. by (1-2) G35)
G35 = Cl / Me / CO2H
G39 = 47

HN—C(O)-G14
47

Derivative: and physiologically acceptable salts and solvates
Patent location: claim 1
Note: also incorporates claim 14

MSTR 2

G21—G1

G1 = NH2
G21 = pyridyl (opt. substd. by (1-2) G35)
G35 = Cl / Me / CO2H
Patent location: claim 14

MSTR 4

G14—C(O)-G1

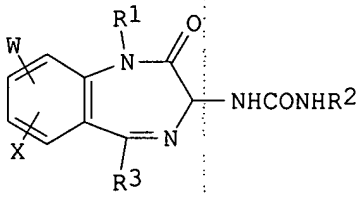
G1 = OH
G14 = pyridyl (opt. substd. by (1-2) G20)
G20 = Cl / Me / NO2
Patent location: claim 14

L17 ANSWER 84 OF 99 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 121:83390 MARPAT
TITLE: Benzodiazepine CCK-B receptor antagonists
INVENTOR(S): Ryder, Hamish; Semple, Graeme; Kendrick, David Alan;

Szelke, Michael; Satoh, Masato; Ohta, Mitsuaki; Miyata, Keiji; Nishida, Akito
PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co. Ltd., Japan; Ferring Research Ltd.
SOURCE: PCT Int. Appl., 120 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9316999	A1	19930902	WO 1993-GB404	19930226
W: AT, AU, BB, BG, BR, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG				
GB 2264492	A1	19930901	GB 1992-4221	19920227
GB 2264492	B2	19960925		
AU 9336391	A1	19930913	AU 1993-36391	19930226
AU 672390	B2	19961003		
EP 628033	A1	19941214	EP 1993-905480	19930226
EP 628033	B1	20030723		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 07505121	T2	19950608	JP 1993-506433	19930226
JP 2571344	B2	19970116		
RU 2139282	C1	19991010	RU 1994-38255	19930226
AT 245632	E	20030815	AT 1993-905480	19930226
CA 2129990	C	20060110	CA 1993-2129990	19930226
NO 9403133	A	19940824	NO 1994-3133	19940824
NO 311215	B1	20011029		
FI 9403941	A	19941026	FI 1994-3941	19940826
US 5688943	A	19971118	US 1994-284462	19940914
PRIORITY APPLN. INFO.:			GB 1992-4221	19920227
			GB 1992-12740	19920616
			WO 1993-GB404	19930226

GI

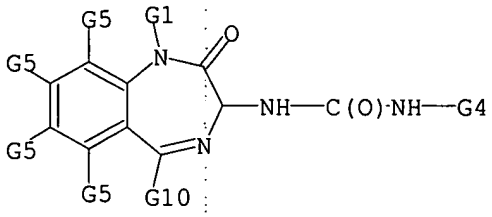


I

AB The title compds. [I; R1 = CH2CHOH(CH2)aR4, CH2CO(CH2)aR5; R4, R5 = alkyl, cycloalkyl, saturated heterocyclic groups; a = 0, 1; R2, R3 = (un)substituted aromatic carbocyclic and heterocyclic residues; W, X = halogen, H, alkyl, alkoxy], which are gastrin and/or CCK-B receptor antagonists and useful for the prevention or treatment of diseases induced by failure of physiol. functions controlled by gastrin or central CCK-B receptors, are prepared

Thus, (3RS)-3-benzoyloxycarbonylamino-1-cyclopentylcarbonylmethyl-2,3-dehydro-5-phenyl-1H-1,4-benzodiazepin-2-one was hydrogenated, reacted with S-mandelic acid and 3,5-dichlorosalicylaldehyde, the precipitate treated with NaOH solution, and condensed with m-tolyl isocyanate, producing N-[(3R)-cyclopentylcarbonylmethyl-2,3-dihydro-2-oxo-5-phenyl-1H-1,4-benzodiazepin-3-yl]-N'-(3-ethylphenyl)urea (II). II demonstrated 50% inhibitory concentration for rat brain-derived CCK-B receptors of 0.07 nM and 2500 nM for CCK-A receptors.

MSTR 1



G4 = pyridyl (opt. substd. by 1 or more G9)
G9 = Cl / Me / CO2H
Derivative: or pharmaceutically acceptable salts
Patent location: claim 1

MSTR 3

G1—G4

G1 = NH2
G4 = pyridyl (opt. substd. by 1 or more G9)
G9 = Cl / Me / CO2H
Patent location: claim 14
Note: also incorporates structure in claim 15

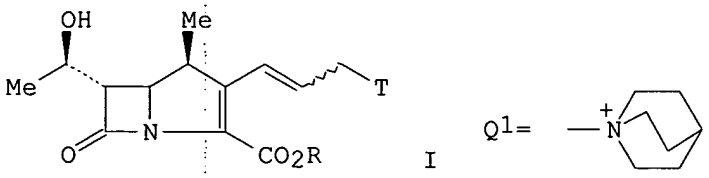
L17 ANSWER 85 OF 99 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 121:9026 MARPAT
TITLE: Preparation of carbapenem derivatives as antibacterial agents
INVENTOR(S): Koide, Tokuo; Nakai, Ei Ichi; Yokota, Masaki; Araki, Tomio; Maeda, Tetsuya; Susaki, Kiyoshi
PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 47 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9316080	A1	19930819	WO 1993-JP126	19930203
W: AU, BB, BG, BR, CA, CZ, FI, HU, JP, KR, LK, MG, MN, MW, NO, NZ,				

PL, PT, RO, RU, SD, SK, UA, US
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG

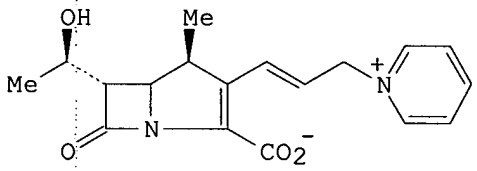
AU 9334628 A1 19930903 AU 1993-34628 19930203
PRIORITY APPLN. INFO.: JP 1992-56355 19920206
WO 1993-JP126 19930203

GI

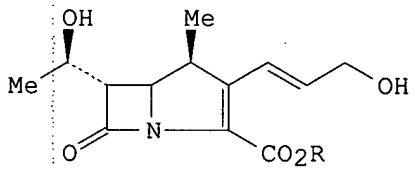


I

Q1=



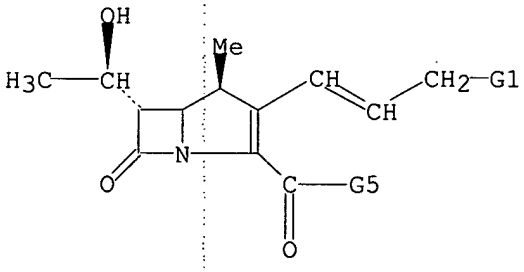
II



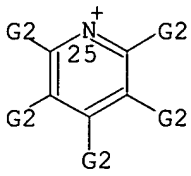
III

AB The title compds. I [T = (substituted) pyridinium, Q1, etc.; R = H, anionic charge, ester residue; the wavy line represents either the cis or trans form], useful as antibacterial agents, were prepared Carbapenem (E)-II was prepared in several steps from carbapenem derivative (E)-III (R = p-nitrobenzyl). (E)-II had ED50 value equal to that of the known imipenem - cilastatin - in Staphylococcus aureas-infected mice. Formulations containing I are given.

MSTR 1



G1 = 25

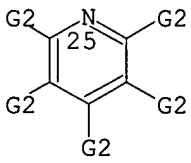


G2 = Cl / NH2 / CO2H / Me
Derivative: and pharmaceutically acceptable salts, solvates, and hydrates
Patent location: claim 1

MSTR 3

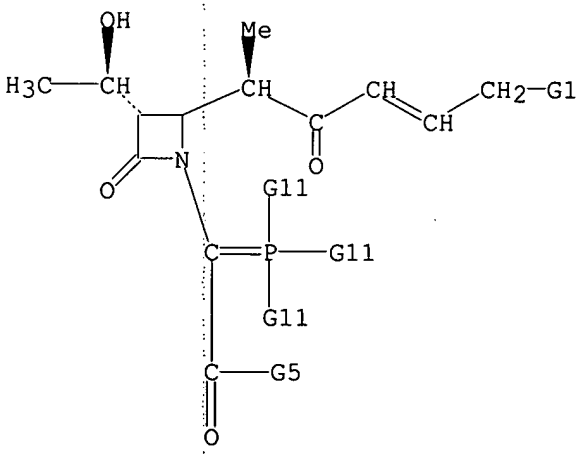
G1

G1 = 25

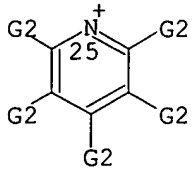


G2 = Cl / NH2 / CO2H / Me
Patent location: claim 6

MSTR 4



G1 = 25



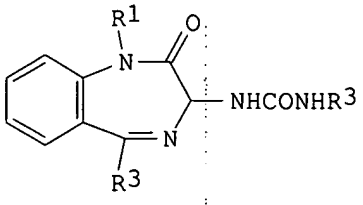
G2 = Cl / NH2 / CO2H / Me
Patent location: claim 6

L17 ANSWER 86 OF 99 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 120:270467 MARPAT
TITLE: (Ureido)benzodiazepinone cholecystokinin-B and gastrin receptor antagonists
INVENTOR(S): Ryder, Hamish; Semple, Graeme; Kendrick, David A.; Szelke, Michael; Satoh, Masato; Ohta, Mitsuaki; Miyata, Keiji; Nishida, Akito
PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co. Ltd., Japan; Ferring Research Institute
SOURCE: Brit. UK Pat. Appl., 37 pp.
CODEN: BAXXDU
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2264492	A1	19930901	GB 1992-4221	19920227
GB 2264492	B2	19960925		
IL 104853	A1	19971120	IL 1993-104853	19930225
WO 9316999	A1	19930902	WO 1993-GB404	19930226
W: AT, AU, BB, BG, BR, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG				
AU 9336391	A1	19930913	AU 1993-36391	19930226
AU 672390	B2	19961003		
ZA 9301381	A	19931215	ZA 1993-1381	19930226
EP 628033	A1	19941214	EP 1993-905480	19930226
EP 628033	B1	20030723		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
HU 67963	A2	19950529	HU 1994-2212	19930226
JP 07505121	T2	19950608	JP 1993-506433	19930226
JP 2571344	B2	19970116		
RU 2139282	C1	19991010	RU 1994-38255	19930226
AT 245632	E	20030815	AT 1993-905480	19930226
EP 1342719	A1	20030910	EP 2003-10776	19930226
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
PT 628033	T	20031231	PT 1993-905480	19930226
ES 2203616	T3	20040416	ES 1993-905480	19930226
CA 2129990	C	20060110	CA 1993-2129990	19930226
CN 1075717	A	19930901	CN 1993-101848	19930227
CN 1051079	B	20000405		
TW 438783	B	20010607	TW 1993-82102213	19930324
NO 9403133	A	19940824	NO 1994-3133	19940824

NO 311215	B1	20011029		
FI 9403941	A	19941026	FI 1994-3941	19940826
US 5688943	A	19971118	US 1994-284462	19940914
US 5962451	A	19991005	US 1997-867422	19970606
PRIORITY APPLN. INFO.:			GB 1992-4221	19920227
			GB 1992-12740	19920616
			EP 1993-905480	19930226
			WO 1993-GB404	19930226

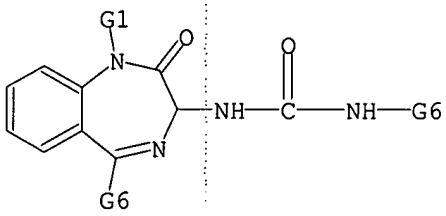
GI



I

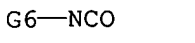
AB The title compds. I [R1 = CH2CHOH(CH2)aR4, CH2CO(CH2)aR5; R4, R5 = alkyl, cycloalkyl, (un)substituted saturated heterocyclic groups; a = 0, 1; R2, R3 = aromatic carbocyclic and heterocyclic residues], which are cholecystokinin-B and gastrin receptor antagonists, useful in the treatment of diseases mediated by the central cholecystokinin-B receptor, are prepared and I-containing pharmaceutical formulations presented. Thus, N-[(1-cyclopentylcarbonylmethyl)-2,3-dihydro-2-oxo-5-phenyl-1H-1,4-benzodiazepin-3-yl]-N'-(3-methylphenyl)urea (II), prepared from cyclopentanecarboxylic acid in three steps, demonstrated 50% inhibitory concentration against rat brain-derived cholecystokinin-B receptors of 0.2 nM.

MSTR 1



G6 = pyridyl (opt. substd. by 1 or more G12)
G12 = Cl / Me / CO2H
Derivative: or pharmaceutically acceptable salts
Patent location: claim 1

MSTR 3



G6 = pyridyl (opt. substd. by 1 or more G12)
G12 = Cl / Me / CO2H

Patent location: claim 13

MSTR 5

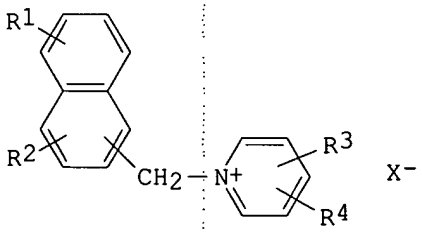
G6—NH_2

G6 = pyridyl (opt. substd. by 1 or more G12)
G12 = Cl / Me / CO2H
Patent location: claim 14

L17 ANSWER 87 OF 99 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 119:226659 MARPAT
TITLE: Pyridinium salts and cationic polymerization initiators
INVENTOR(S): Takahashi, Eiji; Morikawa, Takao
PATENT ASSIGNEE(S): Nippon Soda Co, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05132462	A2	19930528	JP 1991-321035	19911108
JP 3067351	B2	20000717		

PRIORITY APPLN. INFO.: JP 1991-321035 19911108
GI

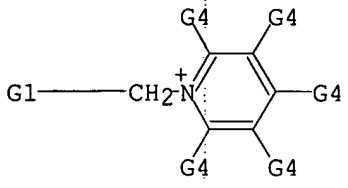


I

AB Cationic polymerization initiators containing pyridinium salts I [R1-2 = H, alkyl, alkoxy, halo; R3-4 = H, alkyl, alkoxy, halo, nitro, cyano, vinyl, CH2CN, CONR5R6, NR5R6, COR5, CO2R5, OCOR5, (un)substituted Ph or Bz or CH2Ph; R5 = H, alkyl, (un)substituted Ph or CH2Ph; R6 = H, alkyl, acyl, (un)substituted Ph or Bz or CH2Ph; X = SbF6, AsF6, PF6, BF4] give polymerizable compns. rapidly curable by heat. Thus, reaction of α-bromomethylnaphthalene with 2-cyanopyridine at 0° for 21 h gave 92% α-naphthylmethyl-2-cyanopyridinium bromide, which was stirred with NaSbF6 in H2O to give 93% α-naphthylmethyl-2-cyanopyridinium hexafluoroantimonate (II). A composition of ERL 4221 containing

2.5 phr II showed exothermic peak temperature 121° in DSC.

MSTR 1



G13

G4 = Cl / CH=CH2 / NO2 / 19

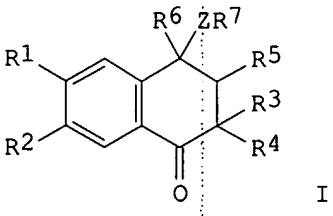
19 C(O)-G5

G5 = OH
Patent location: claim 1

L17 ANSWER 88 OF 99 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 119:95539 MARPAT
TITLE: Heterocyclyl group-substituted tetralones having antihypertensive and bronochodilating activity
INVENTOR(S): Almansa, Carmen; Gonzalez, M. Concepcion; Torres, M. Carmen; Carceller, Elena; Bartroli, Javier
PATENT ASSIGNEE(S): Uriach, J., e Cia. S.A., Spain
SOURCE: Eur. Pat. Appl., 39 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 525768	A1	19930203	EP 1992-113007	19920730
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE				
ES 2033581	A1	19930316	ES 1991-1777	19910730
ES 2033581	B1	19931216		
ES 2041212	A1	19931101	ES 1992-333	19920217
ES 2041212	B1	19940516		
CA 2074864	AA	19930131	CA 1992-2074864	19920729
PRIORITY APPLN. INFO.:			ES 1991-1777	19910730
			ES 1992-333	19920217

GI



I

AB The title compds. I [R1, R2 = H, OH, CHO, CO2H, NO2, NH2CN, halogen, OCF3, alkoxy, C.tplbond.CH, (un)substituted alkylcarbonyl, arylsulfinyl, alkylsulfinyl, arylsulfenyl, alkyl, alkylsulfonylamino, aminosulfinyl, aminosulfonyl, etc.; R3 = H, alkyl; R4 = alkyl; R5 = OH, acetoxy, formyloxy; R6 = H, olefinic bond with R5; Z = O, NR8; R3R4 = C2-5 methylene chain; if Z = O, then R7 = R9 where R9 = C3-6 cycloalkyl, C3-6 cycloalkenyl, Ph, heteroaryl (all optionally substituted by 1-2 halogen atoms and/or 1-2 C1-6 alkyl, C1-6 alkoxy, arylmethyloxy, etc., but when Z = NR8, then R7 = R9, C(:X)R10; R10 = H, (un)substituted C1-6 alkyl, C2-6 alkenyl, C3-6 cycloalkyl, (un)substituted Ph, (un)substituted heteroaryl; X = O, S, NCN], useful as antihypertensive and bronchodilating agents, are prepared Thus, 3,4-epoxy-2,2-dimethyl-1-oxo-1,2,3,4-tetrahydronaphthalene-6-carbonitrile reacted with 3,6-dihydroxypyridazine to give trans-2,2-dimethyl-3-hydroxy-4-(6-hydroxy-3-pyridazinyloxy)-1-oxo-1,2,3,4-tetrahydrononaphthalene-6-carbonitrile (II) in 65% yield. In spontaneously hypertensive rats at 1 mg/kg, II lowered arterial blood pressure 116 mm Hg, and at 8.8 μM inhibited 50% noradrenaline-induced contraction in portal vein isolated from rat.

MSTR 3

G19—G1

G1 = NH2
G19 = pyridyl (opt. substd. by (1-2) G20)
G20 = Cl / 75 / CO2H

H_2C(75)——G21

G21 = alkenyl <containing 2-4 C>
Patent location: claim 7

MSTR 5

G19—G1

G1 = Cl
G19 = pyridyl (opt. substd. by (1-2) G20)
G20 = 75 / NO2 / CO2H

H_2C(75)——G21

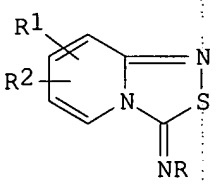
G21 = alkenyl <containing 2-4 C>
Patent location: claim 7

L17 ANSWER 89 OF 99 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 119:49396 MARPAT
TITLE: Preparation of 3-arylimino-3H-[1,2,4]thiadiazolo[4,3-

a]pyridines as antiallergics
INVENTOR(S): Friebe, Walter Gunar; Wilhelms, Otto Henning
PATENT ASSIGNEE(S): Boehringer Mannheim G.m.b.H., Germany
SOURCE: Ger. Offen., 8 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4131579	A1	19930325	DE 1991-4131579	19910923
WO 9306109	A1	19930401	WO 1992-EP2142	19920917
W: AU, BG, BR, CA, CS, FI, HU, JP, KR, NO, PL, RO, RU, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE				
AU 9225600	A1	19930427	AU 1992-25600	19920917
EP 605493	A1	19940713	EP 1992-919432	19920917
EP 605493	B1	20011205		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, SE				
JP 06510773	T2	19941201	JP 1993-505776	19920917
JP 3244699	B2	20020107		
AT 210135	E	20011215	AT 1992-919432	19920917
US 5447934	A	19950905	US 1994-204391	19940318
PRIORITY APPLN. INFO.:			DE 1991-4131579	19910923
			WO 1992-EP2142	19920917

GI



I

AB Title compds. [I; R = (substituted) (unsatd.) carbocyclic or heterocyclic group; R1, R2 = H, halo, alkyl; or adjacent R1R2 = CH:CHCH:CH] were prepared as antiasthmatics (no data). Thus, 2-aminopyridine was cyclocondensed with Cl3CSCl and the product condensed with 2-aminothiazole to give I (R = 2-thiazolyl, R1 = R2 = H).

MSTR 1A

G1—G3

G1 = NH2
G3 = pyridyl (opt. substd. by 1 or more G4)
G4 = Cl / CO2H / alkyl <containing 1-6 C> (substd. by 326)

C(O)-G11
326

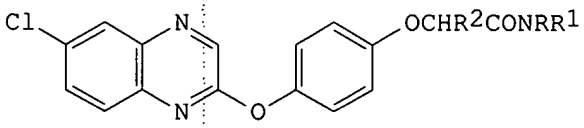
Derivative: and physiologically acceptable salts
Patent location: claim 1
Note: substitution is restricted

L17 ANSWER 90 OF 99 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 119:28159 MARPAT
TITLE: Preparation of N-aryl-2-[4-(6-chloro-2-quinoxalinyloxy)phenoxy]propanamides as herbicides
INVENTOR(S): Fawzi, Maged Mohamed
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: Eur. Pat. Appl., 135 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 527016	A1	19930210	EP 1992-306932	19920729
R: PT				
WO 9303020	A1	19930218	WO 1992-US6270	19920729
W: AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO, PL, RO, RU, SD, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG				
AU 9224019	A1	19930302	AU 1992-24019	19920729
JP 06509357	T2	19941020	JP 1993-503695	19920729
ZA 9205786	A	19940131	ZA 1992-5786	19920731
CN 1070641	A	19930407	CN 1992-110443	19920801
EP 580932	A1	19940202	EP 1993-100536	19930115
R: ES				

PRIORITY APPLN. INFO.: US 1991-739001 19910801
US 1992-850730 19920313
WO 1992-US6270 19920729

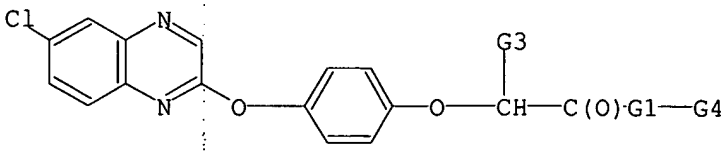
GI



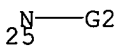
I

AB Title compds. I [R = (substituted) Ph, -pyridyl, -thienyl, -pyrazinyl, etc.; R1 = H, alkyl; R2 = H, Me] were prepared Thus, 2-[4-(6-chloro-2-quinoxalinyloxy)phenoxy]propionyl chloride was amidated with 2,4-F2C6H3NH2 to give I (R = 2,4-F2C6H3NH, R1 = H, R2 = Me) (II). (R)-II gave complete control of Echinochloa crus-galli and Sorghum halepense with no damage to cotton or soybean at 16 g/ha postemergent.

MSTR 1



G1 = 25



G2 = Me
G4 = pyridyl (opt. substd. by (1-2) G11)
G11 = CO2H / Cl / Me
Patent location: claim 1
Note: substitution is restricted

L17 ANSWER 91 OF 99 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 118:102484 MARPAT
TITLE: Preparation of dipeptidylquinazolones as neoplasm inhibitors
INVENTOR(S): Bissett, Graham Michael Fraser; Jackman, Ann Lesley; Jodrell, Duncan Ian
PATENT ASSIGNEE(S): British Technology Group PLC, UK; Imperial Chemical Industries PLC
SOURCE: Brit. UK Pat. Appl., 62 pp.
CODEN: BAXXDU
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2253849	A1	19920923	GB 1992-5906	19920318
GB 2253849	B2	19950118		
CA 2106583	AA	19920920	CA 1992-2106583	19920318
WO 9216512	A1	19921001	WO 1992-GB476	19920318
W: AU, CA, CS, FI, HU, JP, KR, NO, RU, US				
AU 9213716	A1	19921021	AU 1992-13716	19920318
AU 655970	B2	19950119		
EP 509643	A1	19921021	EP 1992-302304	19920318
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE				
ZA 9201985	A	19930920	ZA 1992-1985	19920318
JP 06505974	T2	19940707	JP 1992-506050	19920318
HU 67177	A2	19950228	HU 1993-2636	19920318
NO 9303341	A	19931118	NO 1993-3341	19930920
US 5444061	A	19950822	US 1993-122473	19930920
PRIORITY APPLN. INFO.:			GB 1991-5771	19910319
			WO 1992-GB476	19920318

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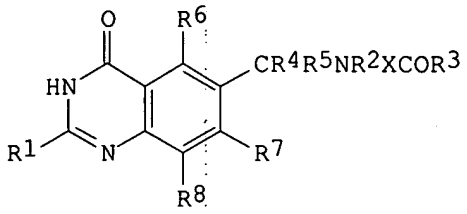
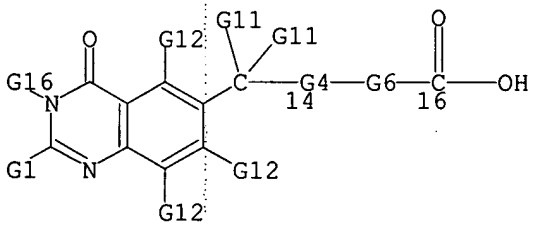


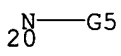
I

AB Title compds. [I; R1 = H, amino, alkyl, alkoxy, alkylthio, aryl, aryloxy, halo, OH, SH, haloalkyl, hydroxyalkyl, alkanoylaminoalkyl, hydroxyalkoxy, alkoxyalkoxy; R2 = H, alkyl, alkenyl, alkynyl, hydroxyalkyl, alkoxyalkyl, mercaptoalkyl, alkylthioalkyl, haloalkyl, cyanoalkyl, aminoalkyl, alkanoylalkyl, carboxyalkyl, carbamoylalkyl, alkanoyl; X = (substituted) phenylene, heterocyclylene; R3 = dipeptide residue; R4, R5 = H, alkyl; R6-R8 = H, alkyl, alkoxy, halo], were prepared Thus, p-[N-(3,4-dihydro-2-methyl-4-oxoquinazolin-6-ylmethyl)-N-(2-propynyl)amino]benzoic acid trifluoroacetate (preparation given) was stirred with tri-tert-Bu L-γ-glutamyl-D-glutamate (preparation given), (EtO)2P(O)CN, and Et3N in DMF to give the coupling product, which was stirred with CF3CO2H to give N-p-[N-(3,4-dihydro-2-methyl-4-oxoquinazolin-6-ylmethyl)-N-(2-propynyl)amino]benzoyl-L-γ-glutamyl-D-glutamic acid trifluoroacetate. The latter inhibited growth of L1210 leukemia with IC50 = 0.18 μM; it was not cleaved after 1 h in mice following i.p. administration.

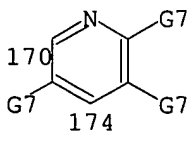
MSTR 2E



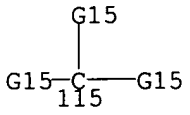
G4 = 20



G5 = CHO
G6 = 170-16 174-14



G7 = Cl / 115



Derivative: or reactive derivatives
Patent location: claim 12

L17 ANSWER 92 OF 99 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 117:111641 MARPAT
TITLE: Preparation of 4-(diarylmethylene)piperidines and N-(diarylmethyl)piperazines as allergy inhibitors and antiinflammatories
INVENTOR(S): Piwinski, John J.; Wong, Jesse; Green, Michael J.; Seidl, Vera; Friary, Richard
PATENT ASSIGNEE(S): Schering Corp., USA
SOURCE: PCT Int. Appl., 76 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9206971	A1	19920430	WO 1991-US7169	19911008
W: AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MC, MG, MW, NO, PL, RO, SD, SU, US				
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, ML, MR, NL, SE, SN, TD, TG				
CA 2093798	AA	19920411	CA 1991-2093798	19911008
CA 2093798	C	20000201		
AU 9188490	A1	19920520	AU 1991-88490	19911008
AU 646519	B2	19940224		
ZA 9108044	A	19920729	ZA 1991-8044	19911008
EP 553191	A1	19930804	EP 1991-918503	19911008
EP 553191	B1	19950517		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 05508660	T2	19931202	JP 1991-517935	19911008
JP 08009596	B4	19960131		
HU 66081	A2	19940928	HU 1993-1051	19911008
ES 2072627	T3	19950716	ES 1991-918503	19911008
IL 99676	A1	19951127	IL 1991-99676	19911008
CZ 280532	B6	19960214	CZ 1993-622	19911008
US 5432175	A	19950711	US 1993-30454	19930401
NO 9301312	A	19930610	NO 1993-1312	19930406
NO 305028	B1	19990322		
KR 9705927	B1	19970422	KR 1993-71070	19930409
PRIORITY APPLN. INFO.:			US 1990-595330	19901010
			WO 1991-US7169	19911008

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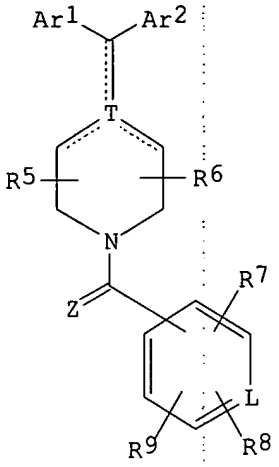
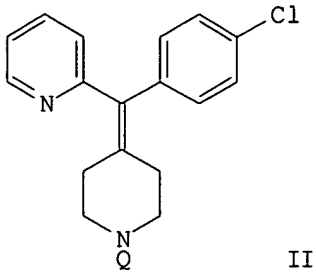
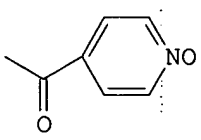


I

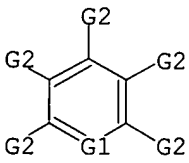


II



AB Title compds. [I; Ar1, Ar2 = (benzanellated) (substituted) (hetero)aryl; R5, R6 = H, aryl, (substituted) alkyl; geminal R5R6 = O, S; R7-R9 = H, halo, CF3, OR11, COR11, SR11, SOnR12, N(R11)2, NO2, cyano, CO2R11, OCO2R12, O2CR11, CON(R11)2, aryl, alkynyl, (substituted) alkyl, alkenyl, etc.; n = 1, 2; R11 = H, alkyl, aryl; R12 = alkyl, aryl; T = CH, C, N; Z = O, S, (H, H), (H, alkyl); L = N, NO; dotted lines = optional double bonds], were prepared Thus, piperidine derivative II (Q = H) (preparation given), isonicotinic acid N-oxide, 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride, and 1-hydroxybenzotriazole in CH2Cl2 were stirred at 0°-room temperature to give 97% II (Q = Q1) (III). III at 3 mg/kg orally in guinea pigs gave 100% inhibition of platelet-activating factor (PAF)-induced bronchospasm, and 0% inhibition of histamine-induced bronchospasm. I showed varying combinations of PAF and histamine antagonist activity. Tablets and capsules were prepared containing III.

MSTR 3

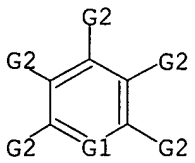


G1 = N
G2 = (1) CO2H / Cl / NH2 /
alkyl <containing 1-20 C> (opt. substd. by G8)
G8 = 34

34 C(O)-G10

Patent location: claim 12

MSTR 4



G1 = N
G2 = Cl / 22 / NH2 / alkyl <containing 1-20 C> (opt. substd. by G8)

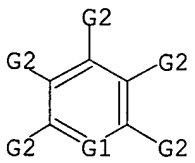
22 C(O)-G5

G5 = OH
G8 = 34

34 C(O)-G10

Patent location: claim 12

MSTR 6



G1 = N
G2 = Cl / 22 / NH2 / alkyl <containing 1-20 C> (opt. substd. by G8)

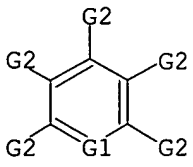
22 C(O)-G5

G5 = OH
G8 = 34

34 C(O)-G10

Patent location: claim 12

MSTR 7



G1 = N
G2 = Cl / 22 / NH2 / alkyl <containing 1-20 C> (opt. substd. by G8)

22 C(O)-G5

G5 = OH
G8 = 34

34 C(O)-G10

Patent location: claim 12

L17 ANSWER 93 OF 99 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 117:90279 MARPAT
TITLE: Preparation of imidazo[4,5-c]pyridines as PAF and LTD4 receptor antagonists
INVENTOR(S): Marfat, Anthony; Eggler, James Frederick; Cooper, Kevin; Fray, Michael Jonathan
PATENT ASSIGNEE(S): Pfizer Inc., USA
SOURCE: PCT Int. Appl., 126 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

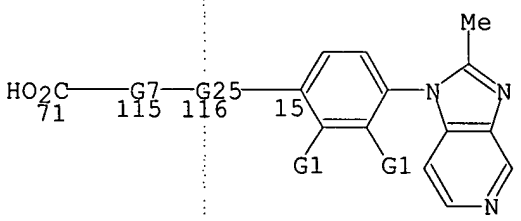
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9117163	A1	19911114	WO 1991-US2997	19910501
W: AU, BG, BR, CA, FI, HU, JP, KR, LK, NO, PL, RO, SU, US				
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IT, LU, ML, MR, NL, SE, SN, TD, TG				
CA 2080476	AA	19911110	CA 1991-2080476	19910501
AU 9178671	A1	19911127	AU 1991-78671	19910501
AU 642265	B2	19931014		
EP 533695	A1	19930331	EP 1991-909431	19910501
EP 533695	B1	19941005		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
BR 9106433	A	19930504	BR 1991-6433	19910501
HU 62894	A2	19930628	HU 1992-3496	19910501
JP 05505619	T2	19930819	JP 1991-509156	19910501
JP 06078340	B4	19941005		
ES 2061247	T3	19941201	ES 1991-909431	19910501
RO 109450	B1	19950228	RO 1992-1395	19910501

CN 1057839	A	19920115	CN 1991-103959	19910508
ZA 9103497	A	19921230	ZA 1991-3497	19910508
NO 9204290	A	19921106	NO 1992-4290	19921106
PRIORITY APPLN. INFO.:			US 1990-521199	19900509
			WO 1991-US2997	19910501

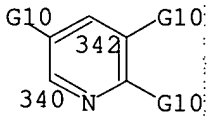
GI For diagram(s), see printed CA Issue.

AB Title compds. [I; R = R3AWB; A = CH2O, CH:CH, CH2NH, O, CONH, etc.; B = NHCH2, CH2O, CHMeO, CMe2O, O, CH2CH2, etc.; R2 = H, F, Cl, Me, MeO, MeCO, etc.; R3 = (un)substituted heteroaryl; W = (un)substituted arylenediyl] were prepared as PAF and LTD4 receptor antagonists (no data). Thus, 4-(HOCH2)C6H4NH2 was condensed with 4-chloro-3-nitropyridine and the reduced product refluxed with Ac2O to give I (R2 = H) (II; R = CH2OAc) which was converted in 2 steps to II (R = CHO). The latter was reductively condensed with 3-(R3CH2O)C6H4NH2 (R3 = 5-fluorobenzothiazol-2-yl) (preparation given) to give II (R = benzothiazolylmethoxyanilinomethyl group Q).

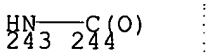
MSTR 3A



G7 = 340-71 342-116



G10 = Cl / Me
G25 = 243-115 244-15



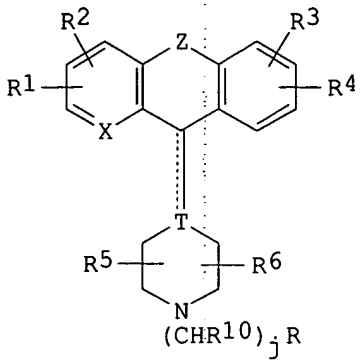
Patent location: claim 30

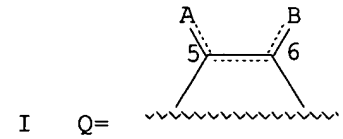
L17 ANSWER 94 OF 99 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 116:235654 MARPAT
TITLE: Preparation of 11-[heterocycl(idene)]benzyo[5,6]cycloh epta[1,2-b]pyridines and analogs as PAF and histamine antagonists
INVENTOR(S): Piwinski, John J.; Green, Michael J.; Wong, Jesse
PATENT ASSIGNEE(S): Schering Corp., USA
SOURCE: PCT Int. Appl., 190 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

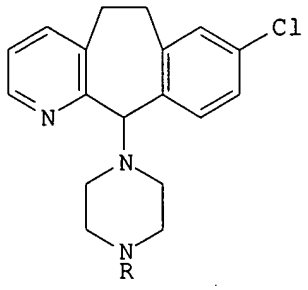
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9200293	A1	19920109	WO 1991-US4162	19910621
W: AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MC, MG, MW, NO, PL, RO, SD, SU, US				
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, ML, MR, NL, SE, SN, TD, TG				
ZA 9104764	A	19920325	ZA 1991-4764	19910620
IL 98572	A1	19950731	IL 1991-98572	19910620
CA 2085878	AA	19911223	CA 1991-2085878	19910621
CA 2085878	C	20000613		
AU 9182252	A1	19920123	AU 1991-82252	19910621
AU 646878	B2	19940310		
EP 535152	A1	19930407	EP 1991-913317	19910621
EP 535152	B1	19950809		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
HU 63161	A2	19930728	HU 1992-4079	19910621
JP 05507092	T2	19931014	JP 1991-512417	19910621
JP 07061998	B4	19950705		
ES 2096657	T3	19970316	ES 1991-913317	19910621
RU 2086549	C1	19970810	RU 1992-16540	19910621
PL 173224	B1	19980227	PL 1991-297300	19910621
CZ 284610	B6	19990113	CZ 1992-3748	19910621
SK 280717	B6	20000612	SK 1992-3748	19910621
US 5422351	A	19950606	US 1992-949810	19921214
NO 9204955	A	19930222	NO 1992-4955	19921221
NO 303223	B1	19980615		
PRIORITY APPLN. INFO.:			US 1990-542280	19900622
			WO 1991-US4162	19910621

GI





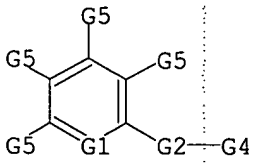
I



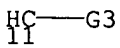
II

AB Title compds. [I; R = (substituted) 4-pyridyl (N-oxide); R1 - R4 = H, alkyl, halo, OR11, COR11, etc., wherein R11 = H, alkyl aryl; R5, R6, R10 = H, (substituted) alkyl; T = CH, N, C, bond; X = CH, N, etc.; Z = [C(Ra)2]mY[C(Ra)2]n, Q; when the dashed line between C-5 and C-6 = bond then A, B = R11, alkoxy, aryloxy, halo, O2CR11; otherwise A, B = H2, H and alkyl, etc.; Y = bond, O, S, etc.; m, n = 0-3, (m + n = 0, 1, 3); j = 1-3] were prepared Thus, 8-chloro-5,6-dihydro-11H-benzo[5,6]cyclohepta[1,2-b]pyridin-11-one was reduced and the alc. treated with SOCl2 to give, after condensation with piperazine, title compound II (R = H) which was condensed with 4-pyridylcarbinol N-oxide to give the N-oxide of II (R = 4-pyridylmethyl). The latter gave 81 and 100% inhibition of PAF- and histamine-induced bronchospasm in guinea pigs at 3 mg/kg orally. Pharmaceutical formulations comprising I are given.

MSTR 3A



G1 = N
G2 = (1-3) 11

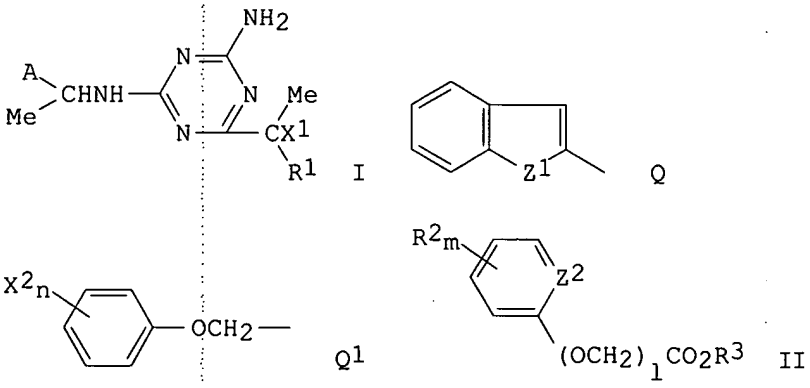


G4 = SO2Me
G5 = Cl / NO2 / CO2H
Patent location: claim 44

L17 ANSWER 95 OF 99 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 116:168353 MARPAT
TITLE: Synergistic herbicidal compositions comprising a triazine derivative and a carboxylate
INVENTOR(S): Hirata, Toshihiro; Kobayashi, Izumi; Kikkawa, Nobuyuki; Takematsu, Tetsuo
PATENT ASSIGNEE(S): Idemitsu Kosan Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 20 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 469406	A1	19920205	EP 1991-112099	19910719
EP 469406	B1	19960117		
R: DE, ES, FR, GB, IT				
IL 94727	A1	19951127	IL 1990-94727	19900613
JP 04089409	A2	19920323	JP 1990-202481	19900801
ES 2084735	T3	19960516	ES 1991-112099	19910719
CA 2048209	AA	19920202	CA 1991-2048209	19910731
CA 2048209	C	19960917		
US 5344810	A	19940906	US 1993-31016	19930311
PRIORITY APPLN. INFO.:			JP 1990-202481	19900801
			US 1991-730208	19910715

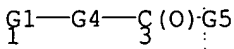
GI



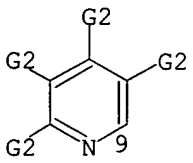
AB Synergistic herbicidal compns. comprise a triazine derivative I (A = Q, Q1; X1 = F, Cl; X2 = F, Me; R1 = H, Me; Z1 = O, S; n = 1, 2) and a carboxylate II (Z2 = N, CH; R2 = F, Cl, Me, MeO; R3 = H, Me, NH4, alkali metal, NHMe; m = 1-4; l = 0, 1). Postemergence application of 5 g 2-amino-4-(α-chloro-α-methylethyl)-6-[2-(3',5'-dimethylphenoxy)-1-methylethylamino]-s-triazine plus 5 g (4-amino-3,5-dichloro-6-fluoro-2-pyridinyl)oxyacetic acid/ha totally controlled Galium aparine, Viola

arvensis, Abutilon theophrasti, and Ipomoea purpurea, with no damage to corn, sorghum, wheat, and barley, whereas the components by themselves were less active.

MSTR 2



G1 = 9



G2 = Cl / Me / NH2
G4 = bond
G5 = OH
Patent location: claim 1

L17 ANSWER 96 OF 99 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 113:132015 MARPAT
TITLE: Preparation of (cyclohexenylcarbonyl)pyridine derivatives as herbicides
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Jpn. Kokai Tokkyo Koho, 45 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02078662	A2	19900319	JP 1989-192443	19890725
IL 91083	A1	19930404	IL 1988-91083	19880724
US 4995902	A	19910226	US 1989-378119	19890711
DD 284002	A5	19901031	DD 1989-331047	19890721
AU 8938929	A1	19900125	AU 1989-38929	19890724
AU 621638	B2	19920319		
DK 8903651	A	19900126	DK 1989-3651	19890724
CN 1039808	A	19900221	CN 1989-106091	19890724
BR 8903654	A	19900313	BR 1989-3654	19890724
HU 50774	A2	19900328	HU 1989-3723	19890724
HU 206497	B	19921130		
ZA 8905610	A	19900328	ZA 1989-5610	19890724
RO 104618	B1	19921202	RO 1989-140952	19890724
PRIORITY APPLN. INFO.:			CH 1988-2825	19880725
			CH 1989-29	19890105

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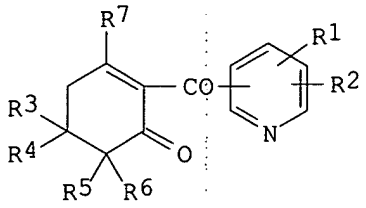
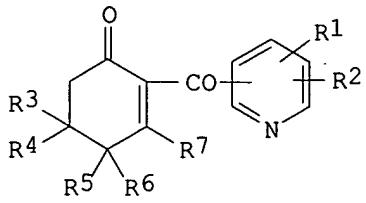
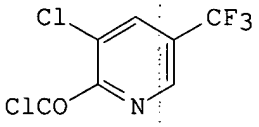


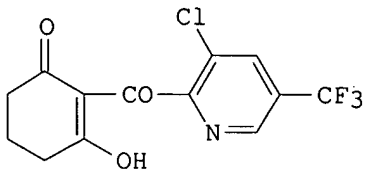
I



II



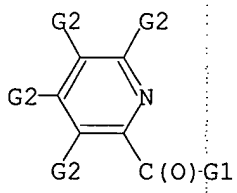
III



IV

AB The title compds. [I, II; R1, R2 = H, halo, NO2, cyano, C1-4 alkyl, alkoxy, alkylthio, etc.; R3-R5 = H, (substituted) C1-4 alkyl, C1-4 alkoxy, alkylthio, etc.; R6 = H, C1-4 alkyl, C1-4 alkoxycarbonyl, cyano; R7 = OH, OM wherein M = nonvalent metal ion, ammonium, C1-4 (hydroxy)alkyl, alkoxyalkyl] are prepared Acid chloride III was added dropwise to a solution of 1,3-cyclohexanedione and Et3N in CH2Cl2 with stirring at room temperature to give 63% title compound IV, which showed 100% kill of Abutilon, Solanum nigrum, etc., without any harm to wheat, barley, etc. at 1000 g/ha as an aqueous emulsion.

MSTR 9



G1 = OH
G2 = NO2 / Cl / Me
Patent location: claim 22
Note: substitution is restricted

L17 ANSWER 97 OF 99 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 113:40462 MARPAT
TITLE: Preparation of 2-(pyridylcarbonyl)cyclohex-1-en-1-ol-3-ones as herbicides
INVENTOR(S): Brunner, Hans Georg
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Eur. Pat. Appl., 59 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2

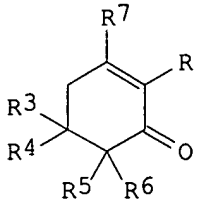
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 353187	A2	19900131	EP 1989-810543	19890718
EP 353187	A3	19901031		

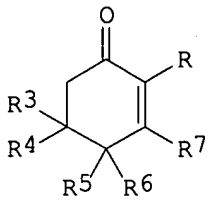
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE

PRIORITY APPLN. INFO.:	CH 1989-2825	19880725
	CH 1989-29	19890105

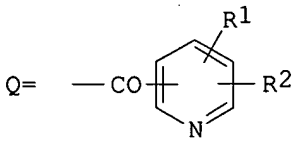
GI

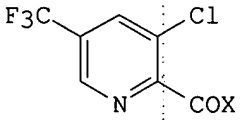


I

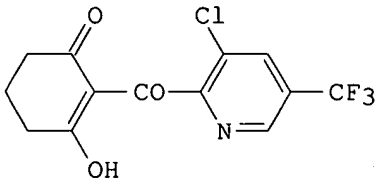


II





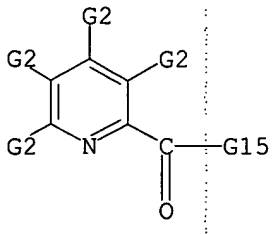
III



IV

AB The title compds. [I and II; R = pyridylcarbonyl group Q; R1, R2 = H, halo, NO2, cyano, alkyl, alkoxy, etc.; R3-R5 = H, alkyl, (un)substituted Ph, PhCH2; R6 = H, alkyl, alkoxycarbonyl, cyano; R7 = OH, O-M+; M = metal, (un)substituted NH4] were prepared Thus, 2,3-dichloro-5-trifluoromethylpyridine was stirred 14 h at 100° under 50 bar CO in EtOH containing Et3N and (Ph3P)2PdCl2 to give pyridinecarboxylate III (X = OEt) which was converted in 2 steps to III (X = Cl). The latter was stirred 15 h with 1,3-cyclohexanedione in CH2Cl2 containing Et3N to give title compound IV which at 250 g/ha preemergent gave complete to nearly complete control of 4 weeds, e.g., Solanum nigrum, without damage to 4 crops, e.g., corn.

MSTR 9



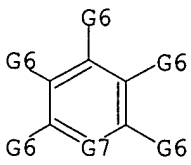
G2 = NO2 / Cl / Me
G15 = OH
Patent location: claim 10

L17 ANSWER 98 OF 99 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 112:160468 MARPAT
TITLE: Azo pigment compositions having improved process heat stability and dried ink transparency
INVENTOR(S): Keys, Boyd A.; Ouderkirk, John T.
PATENT ASSIGNEE(S): Hoechst Celanese Corp., USA
SOURCE: PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 8910385	A1	19891102	WO 1989-US1736	19890424
W: JP				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
US 4968352	A	19901106	US 1988-187623	19880428
CA 1319683	A1	19930629	CA 1989-596000	19890407
EP 412121	A1	19910213	EP 1989-905995	19890424
EP 412121	B1	19930728		
R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
JP 04506673	T2	19921119	JP 1989-505891	19890424
AT 92090	E	19930815	AT 1989-905995	19890424
DK 8902037	A	19891029	DK 1989-2037	19890427
DK 170685	B1	19951204		
PRIORITY APPLN. INFO.:			US 1988-187623	19880428
			EP 1989-905995	19890424
			WO 1989-US1736	19890424

AB Diaryl pigments, having excellent dried ink transparency and improved process heat stability, are prepared by coupling tetrazotized 4,4'-diaminobiphenyls with acetoacetanilides and/or pyrazolinones in the presence of an added quantity of ≥1 aromatic amine containing ≥1 SO3H or CO2H substituent. Thus, 3,3'-dichlorobenzidine (I) was mixed with 1.00 mol% 2-amino-1-naphthalenesulfonic acid (II), the I-II mixture tetrazotized and diazotized, resp., and coupled with acetoacetylated-2,5-dimethoxy-4-chloroaniline (III), producing a mixed disazo-azo pigment which was dried at 60° and which was formulated into an ink which was considerably more transparent (while of equal shade) than a control I→III disazo pigment.

MSTR 5

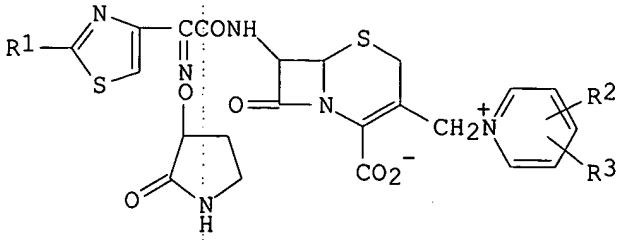


G6 = 1 or more NH2 / CO2H / Me / Cl
G7 = N
Derivative: or salts
Patent location: claim 1
Note: substitution is restricted

L17 ANSWER 99 OF 99 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 110:23620 MARPAT
TITLE: Cephalosporin compounds and processes for preparing the same
INVENTOR(S): Oine, Toyonari; Wagatsuma, Mitsuyoshi; Yamaguchi, Totaro
PATENT ASSIGNEE(S): Tanabe Seiyaku Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 54 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 250172	A2	19871223	EP 1987-305214	19870612
EP 250172	A3	19890712		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
CA 1284995	A1	19910618	CA 1987-538782	19870603
JP 63264488	A2	19881101	JP 1987-141775	19870605
US 4784995	A	19881115	US 1987-59584	19870608
ZA 8704130	A	19880224	ZA 1987-4130	19870609
AU 8774189	A1	19871217	AU 1987-74189	19870612
AU 593912	B2	19900222		
DK 8703041	A	19871217	DK 1987-3041	19870615
FI 8702641	A	19871217	FI 1987-2641	19870615
NO 8702476	A	19871217	NO 1987-2476	19870615
NO 168039	B	19910930		
HU 44561	A2	19880328	HU 1987-2706	19870615
HU 201768	B	19901228		
DD 257260	A5	19880608	DD 1987-303829	19870615
SU 1542417	A3	19900207	SU 1987-4202778	19870615
CS 268536	B2	19900314	CS 1987-4397	19870615
CN 87104282	A	19880106	CN 1987-104282	19870616
AT 8702622	A	19900915	AT 1987-2622	19871008
AT 392473	B	19910410		
CS 268549	B2	19900314	CS 1988-1034	19880218
SU 1551249	A3	19900315	SU 1988-4355226	19880223
PRIORITY APPLN. INFO.:			JP 1986-140988	19860616
			JP 1986-288080	19861203
			CS 1987-4397	19870615

GI

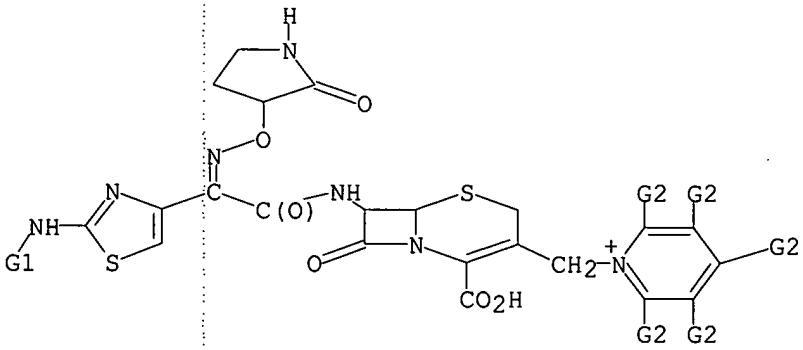


I

Paul Schulwitz 05/09/2006

AB Cephalosporin analogs I [R1 = (un)protected NH2; one of R2 and R3 = (un)substituted alkylthio or NH2, SO2NH2, alkylsulfonyl, SO3H, alkyl (un)substituted with alkylthio, NH2, or acylamino, halo, CO2H, alkoxy; the other of R2 and R3 = H, CONH2, (un)substituted NH2, alkyl, hydroxyalkyl; R2R3 = alkylene] or their salts, useful as antimicrobial agents and additives in animal feed (no data) are prepared by 5 methods. Aqueous NaI was treated with 3-formylamino-5-methoxypyridine and 7-formylaminocephalosporanic acid and the mixture was worked up to give 7β-amino-3-[(3-amino-5-methoxy-1-pyridinio)methyl]-3-cephem-4-carboxylate.HI.2H2O(II). II in aqueous EtOH was treated with NEt3, then with a solution prepared from (Z)-2-(2-tritylaminothiazol-4-yl)-2-[[(3S)-2-oxopyrrolidin-3-yl]oxyimino]acetic acid.2H2O in AcNMe2-CH2Cl2 which had been reacted with POCl3, to give 7β-[(Z)-2-(2-tritylaminothiazol-4-yl)-2-[[(3S)-2-oxopyrrolidin-3-yl]oxyimino]acetamido]-3-[(3-amino-5-methoxypyridinio)methyl]-3-cephem-4-carboxylate, which was detritylated with 80% HCO2H.

MSTR 1



G2 = NH2 / Me / Cl / CO2H
Patent location: claims
Note: record may include structures from disclosure